

Abstract

A telescopic actuator has a lead screw and one or more concentric or tiered screws. Each screw has one or more tangential interference stop features such as stop cogs. As the lead screw is rotated, it translates out of the concentric screws. As the lead
5 screw reaches its maximum extension, a tangential interference stop feature on the lead screw tangentially contacts a tangential interference stop feature on the concentric screw with which the lead screw is threadably engaged. Upon tangential contact, the associated concentric screw rotates in unison with the lead screw. When there are additional concentric screws, as each concentric screw reaches its maximum extension, the system
10 of tangential contacting of tangential interference stop features causes the other concentric screws to extend out in sequential fashion.